ration of FIG. **17** involves a backwards tilt of display **14** at an angle B away from planar (flat) display position **125**. Angle B may be, for example, 0° to 180°. If desired, a user may tilt display **14** to a position such as position **127**. In position **127**, display **14** is tilted forward from planar display position **125** by an angle C. Angle C may be, for example, an angle in the range of 0° to 180°.

As shown in the example of FIG. **18**, flexible display **14** and flexible support structure **124** may be bent in direction **126** to move display **14** and structure **124** from position PA to position PB. When flexible display and support structure **124** are in a position such as position PB of FIG. **18**, device **10** may be placed on a surface such as surface **91**, so that portion **14**C of display **14** may be viewed by a user. If desired, the portion of display **14** that rests against surface **91** may be protected by a layer of cover glass and/or by providing housing **12** with raised peripheral ridge portions that prevent scratching of display **14**.

As shown in FIG. **19**, device **10** may be provided with engagement features such as hook **128** and notch **132**. Hook **128** may be attached to support structure **124** or other portion of the housing structures that support display **14**. Notch **132** may be configured to receive hook **128** when display **14** is bent downwards in direction **130**. As shown by dashed line **136**, hook **128** may mate with notch **132** when display **14** has been placed in position **134**. This type of configuration or other suitable engagement feature arrangement may be used in holding display **14** into a back-to-back position (i.e., a configuration in which the folded portion of display **14** is in position **134** of FIG. **19** and is facing upwards while the unfolded portion of display **14** is facing downwards). The use of engagement features based on a hook-and-notch arrangement is merely illustrative. Other types of engagement features (e.g., engagement features **129** and **131** in the example of FIG. **19**) may be used if desired (e.g., magnetic structures, snaps, hook-and-loop fastener material, other interlocking shapes, etc.).

As shown in FIG. **20**, device **10** may have a hinge that is formed from a flexible portion of housing **12**. In the configuration of device **10** that is shown in FIG. **12**, housing **12** has first portion **12**A and second portion **12**B that are interconnected using hinge **26**. Components **144** may be mounted in housing **12**. For example, components **144** may be mounted in the interior of housing portion **12**A and/or in the interior of housing portion **12**B. Components **144** may be mounted on substrates such as rigid printed circuits boards, flexible printed circuit boards, plastic carriers, or other substrates (shown as substrates **142** in FIG. **20**). Interconnection paths formed from flex circuit cables, wires, interconnect traces on printed circuit boards and other substrates, and other interconnect paths may be used in interconnecting components **144** and flexible display **14**. For example, flexible communications path **140** may be coupled between substrate **142** in housing portion **12**A and substrate **142** in housing portion **12**B. Path **140** may be connected to traces on the substrate in housing portion **12**A at connection point **146** and may be connected to traces on the substrate in housing portion **12**B at connection point **148**. The traces on the substrates may be used to interconnect components **144** with each other and to path **140**. Components **144** may include components such as connectors, integrated circuits (e.g., display driver circuitry for controlling display **14**), discrete components such as inductors, resistors, and capacitors, sensors, status indicator lights, cameras, microphones, speakers, antennas, batteries, etc.

To facilitate bending of display **14** and housing **12** in the vicinity of hinge **26**, housing **12** may, as an example, be formed from a flexible material. Examples of flexible materials that may be used in forming housing **12** include flexible polymers, composite structures (e.g., fiber-based composites, fiber-impregnated polymers, etc.), fabrics, and flexible metals. When housing portions **12**A and **12**B are rotated relative to each other around hinge axis **18**, housing **12** may flex.

Inflexible structures such as structures **138** may be used to locally strengthen the walls of housing **12** in regions of housing **12** away from hinge **26**. For example, housing **12** may be provided with rigid support structures such as support structures **138**. Structures **138** may be formed from glass, ceramic, metal, fiber-composites, other suitable materials, combinations of these materials, or other suitable materials. Structures **138** may be configured to form rigid box-shaped shells or shells of other shapes that partly or completely surround and protect internal components **144** in housing portions **12**A and **12**B from damage when the flexible material of housing **12** is being used as a hinge and is being flexed (with flexible display **14**) about axis **18**. When device **10** is flexed around axis **18**, the flexible portions of housing **12** that form hinge **26** may flex. Recessed region **138** may be provided in housing **12** to facilitate flexing of housing **12**. As device **10** is flexed, flexible communications path **140** may flex, while maintaining an electrical pathway for signals passing between housing portions **12**A and **12**B.

FIG. **21** shows how a device having a hinge formed from a flexible portion of housing **12** such as device **10** of FIG. **20** may appear when housing portions **12**A and **12**B have been manipulated to flex hinge **26** and place flexible display **14** in a face-to-face configuration. FIG. **22** shows how device **10** of FIG. **20** may appear when housing portions **12**A and **12**B have been manipulated to place flexible display **14** in a back-to-back configuration. In configurations of the type shown in FIGS. **21** and **22**, engagement features **129** and **131** (e.g., magnetic structures, hook-and-loop fasteners, hook and notch structures, other mating structures, or other suitable engagement features) may be used in holding housing portions **12**A and **12**B in desired positions.

FIG. **23** is a side view of an illustrative electronic device with three separate housing portions **12**A, **12**B, and **12**C. As shown in FIG. **23**, housing portions **12**A and **12**B in device **10** may be coupled using hinge **26**A and housing portions **12**B and **12**C may be coupled using hinge **26**B. Additional housing portions may be provided in device **10** if desired, as indicated by dots **200**. Hinges **26** may be formed form flexible housing portions, from three-bar or four-bar linkages, from members containing slots (as shown in FIG. **23**), from flexible metal layers or other sheets of flexible support structure material, from other hinge structures, or from combinations of such structures.

When it is desired to place a device such as device **10** into a folded configuration, housing portion **12**A may be rotated relative to housing portion **12**B in direction **202** and housing portion **12**C may be rotated in direction **204** relative to housing portion **12**B (as an example). Following folding in this way, electronic device **10** may have a configuration of the type shown in FIG. **24**. In this type of configuration, the portions of flexible display **14** that are associated with housing portions **12**A and **12**B may have a face-to-face configuration, whereas the portions of flexible display **14** that are associated with housing portions **12**B and **12**C may have a back-to-back configuration. If desired, hinges **26**A and **26**B may be configured so that housing portions **12**A and **12**C can both fold inwardly onto housing portion **12**B. The arrangement shown in FIG. **24** is merely illustrative.